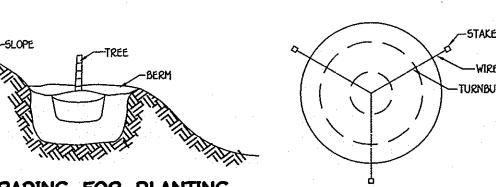


LANDSCAPING PLANT LIST									
QTY.	KEY	NAME	SIZE						
7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 1/2" - 3" CALIPER FULL CROWN, B&B						
1	**	PINUS STROBUS (EASTERN WHITE PINE)	6'-8' HGT.						



GRADING FOR PLANTING ON SLOPES NOT TO SCALE

STAKING DETAIL

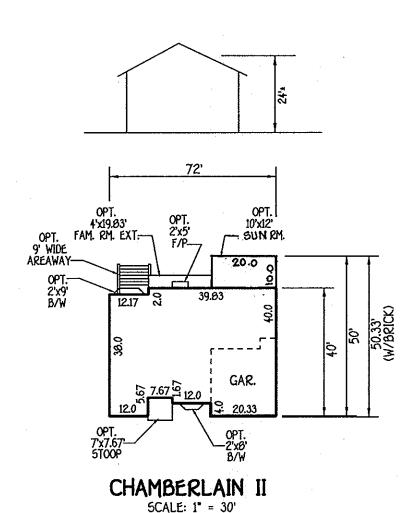
<u>Developer's/Builder's</u> Certificate

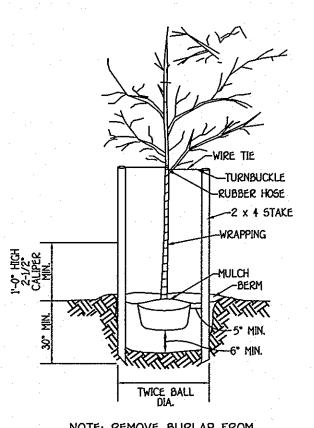
ROBERT DORSEY, JR.

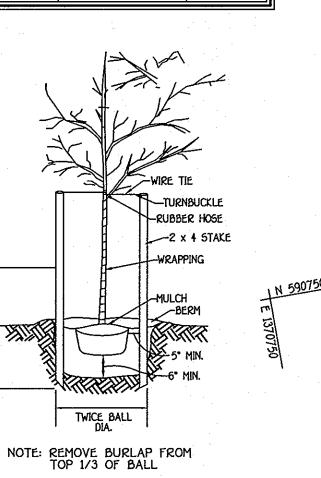
I/We certify that the landscaping shown on this plan will be done according to Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion of Certification of Landscape Installation accompanied by an executed one year guarantee of plant materials will be submitted to the Department of Planning and Zoning.

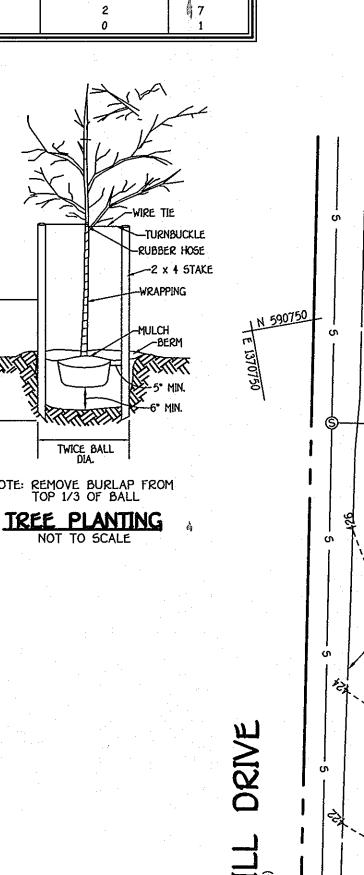
At The Time Of Plant Installation All Shrubs And Trees Listed And Approved On The Landscape Plan, Shall Comply With The Proper Height Requirement In Accordance With The Howard County Landscape Manual In Addition, No Substitutions Or Relocations Of The Required Plantings May Be Made Without Prior Review And Approval From The Department Of Planning And Zoning. Any Deviation From The Approved Landscape Plan May Result In Denial Or Delay In The Release Of Landscape Surety Until Such Time As All Required Materials Are Planted And/or Revision Are Made To The Applicable Plans.

The Owner, Tenants And/Or Their Agents Shall Be Responsible For Maintenance Of The Required Landscaping Including Both Plant Materials And Berms, Fences And Walls. All Plant Materials Shall Be Maintained In Good Growing Conditions, And When Necessary, Replaced With New Materials To Ensure Continued Compliance With Applicable Regulations. All Other Required Landscaping Shall Be Permanently Maintained In Good Condition, And When Necessary,



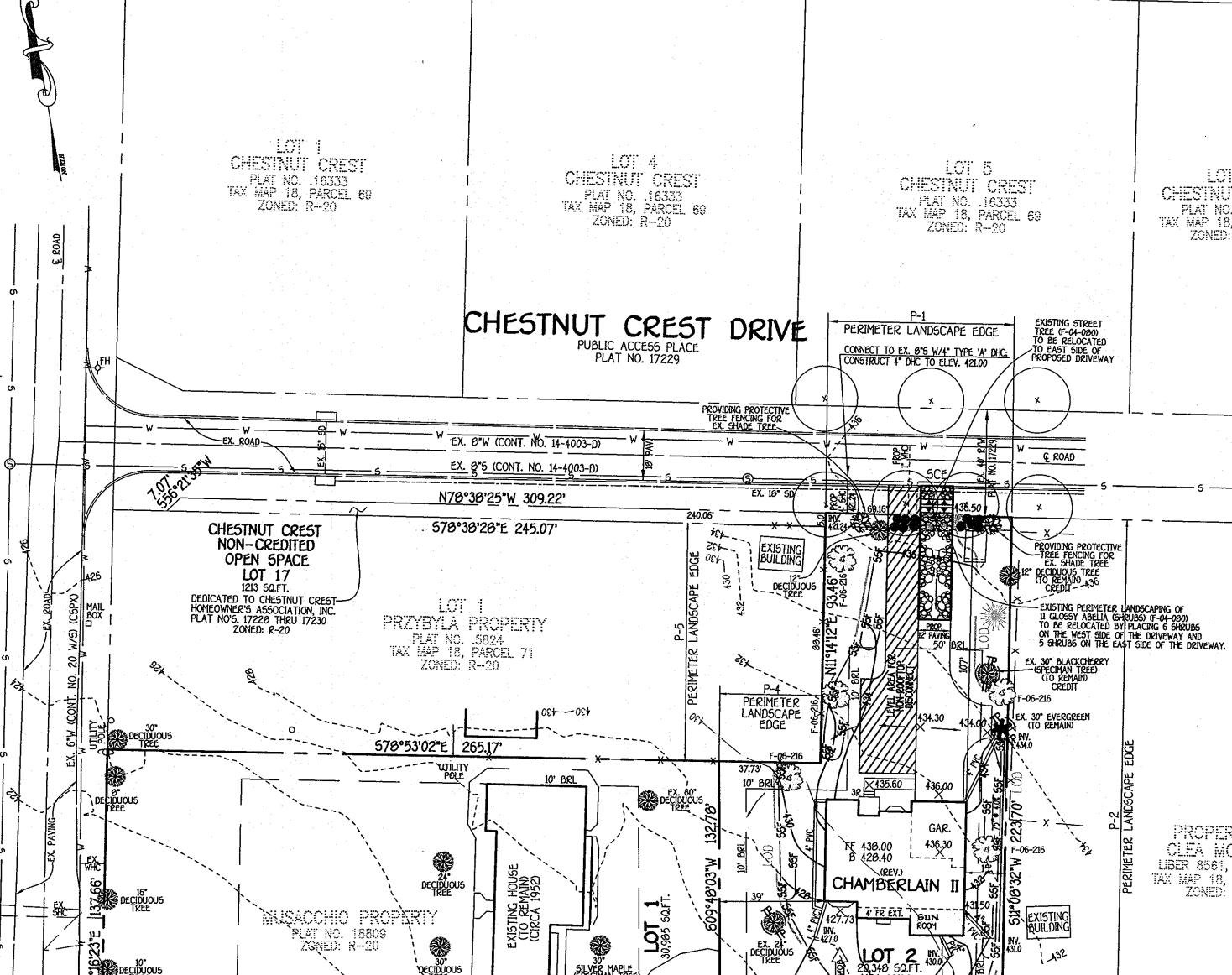






PLAT NO. 5824

EVERGREEN



N80°06'09"W 334.87"

RICHARD SLAYION JANEI SLAYION

PRZYBYLA PROPERIY LIBER 1375, FOLIO 654 PLAT NO. 5824 TAX MAP 18, PARCEL 71 ZONED: R-20

BENCH MARKS

LOT 6

PLAT NO. .16333 TAX MAP 18, PARCEL 69

ZONED: R-20

CLEA MONEELY

LIBER 8561, FOLIO 339 TAX MAP 18, PARCEL 70 ZONED: R-20

LEGEND

PROPOSED CONTOUR 2' INTERVAL

PROPOSED LANDSCAPING PER F-06-216

----- EXISTING CONTOUR 2' INTERVAL

LIMIT OF DISTURBANCE

EXISTING TREES TO REMAIN

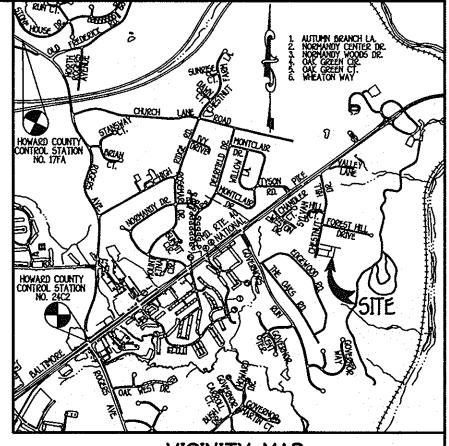
+362.2 SPOT ELEVATION WALKOUT BASEMENT -55F-55F-SUPER SILT FENCE

DESCRIPTION

CHESINUT CRES

HO. CO. MON. 17FA
N594948.349 E1364626.768 ELEV. 476.789
MONUMENT SET NEAR THE INTERSECTION OF
OLD FREDERICK ROAD (MD. RTE.144) &

HO. CO. MON. 24C2 N500640.312 E1366.030195 ELEV. 354.760 MONUMENT SET NEAR THE INTERSECTION OF BALTIMORE NATIONAL PIKE (MD. RTE. 40) &



5CALE: 1" = 2000'

GENERAL NOTES:

1. SUBJECT PROPERTY IS ZONED R-20 PER THE 2/2/04 COMPREHENSIVE ZONING PLAN. AND COMPREHENSIVE LITE ZONING REGULATIONS EFFECTIVE 7/20/06.

2. COORDINATES BASED ON NAD '03, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 17FA AND NO. 24C2.

STA. 17FA N 594940.349, E 1364626.760 ELEV. 476.709

STA. 24C2 N 500640.312, E 1,366,030.195 ELEV. 354.760 3. THIS PLAN IS BASED ON FIELD RUN BOUNDARY SURVEY PERFORMED ON OR ABOUT NOVEMBER, 2005 BY FISHER, COLLINS AND CARTER, INC.

4. DRIVEWAY(5) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE):

B) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1-1/2"

C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS:
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (1-25-LOADING):
E) DRAINAGE ELEMENTS - CAPABLE OF SAFETY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE:

F) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE. 5. ALL LOT AREAS ARE MORE OR LESS (+ OR -).

6. DISTANCES SHOWN ARE BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY 7. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER IS UTILIZED IN THIS

8. PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: SP-01-10, WP-04-70, F-03,19, SDP-03-69, F-04-000, F-04-12 AND F-06-216, W. & S. CONT. NO. 14-4003-D.

9. THERE IS AN EXISTING DWELLING/STRUCTURE(S) LOCATED ON LOT 1 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS OF THE EXISTING DWELLING(S) ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING

CHESTNUT CREST HOMEOWNER'S ASSOCIATION, INC. WERE ACCEPTED AND IDENTIFIED BY INCORPORATION NUMBER

D06439459. THE COVENANTS, CONDITIONS AND RESTRICTIONS ARE RECORDED IN LIBER 7830 AT FOLIO 125. 11. LOT 2 REQUIRES THE SUBMISSION AND APPROVAL OF A SITE DEVELOPMENT PLAN IN ACCORDANCE WITH

SECTION 16.155(AX2)(II) OF THE SUBDIVISION REGULATIONS.

12. NON-CREDITED OPEN SPACE LOT 17 IS OWNED AND MAINTAINED BY THE CHESTNUT CREST HOMEOWNER'S

13. SPEED STUDY DATED MARCH, 2006 WAS PREPARED BY MARS GROUP, INC.

14. NO CEMETERIES EXIST ON THIS SITE BASED ON A VISUAL SITE VISIT AND ON A EXAMINATION OF THE HOWARD COUNTY

15. WETLAND DELINEATION WAS PREPARED ON MARCH 30, 2006 BY ECO-SCIENCE PROFESSIONALS, INC. 16. WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.1228 OF THE

HOWARD COUNTY CODE.

17. PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.

18. LANDSCAPING FOR LOT 2 ASSOCIATED WITH THIS PLAN IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE MANUAL CONTROL OF THE BUILDING AND THE THE

PLAN ON FILE. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. LOT 1 IS EXEMPT FROM THE PERIMETER LANDSCAPE REQUIREMENTS OF SECTION 16.124 OF THE HOWARD COUNTY CODE

AND THE LANDSCAPE MANUAL BECAUSE LOT I CONTAINS AN EXISTING DWELLING TO REMAIN. 19. A LANDSCAPE SURETY FOR 7 SHADE TREES AND 1 EVERGREEN TREE IN THE AMOUNT OF \$2,250.00 (7 SHADE TREES . \$300 EACH AND I EVERGREEN TREE • \$150 EACH) SHALL BE PROVIDED WITH THE GRADING PERMIT.

20. THIS PLAN IS IN COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT

DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT

AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION, OR BUILDING/ GRADING

PERMIT.

21. NO 100 YEAR FLOOD PLAIN EXISTS ON SITE.

22. THIS PROPERTY IS EXEMPT FROM FOREST CONSERVATION IN ACCORDANCE WITH SECTION 16.1202(B)(IXVIID BECAUSE IT IS A MINOR SUBDIVISION THAT CREATES ONE ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL.

23. A FEE IN LIEU OF PROVIDING OPEN SPACE HAS BEEN PAID IN THE AMOUNT OF \$1500.00 UNDER F-06-216.

24. LOT 2 DOES NOT INCLUDE WETLAND, STREAM, ASSOCIATED WETLAND BUFFERS AND STREAM BUFFERS, FOREST CONSERVATION EASEMENTS AND ASSOCIATED BUFFERS AND STEEP SLOPES.

25. QUANTITY AND QUALITY STORMWATER MANAGEMENT REQUIREMENTS ARE PROPOSED TO BE MET BY APPLYING THE NON-ROOFTOP AND ROOFTOP DISCONNECTION CREDITS IN ACCORDANCE WITH CHAPTER 5 OF THE 2000 MARYLAND STORMWATER DESIGN MANUAL AND PER F-06-216.

26. IN ACCORDANCE WITH SECTION 120 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 IN WIDTH MAY PROJECT NOT MORE THAN 4 FEFT INTO ANY SETBACKS.

EXTERIOR STAIRWAYS NOT MORE THAN 16' IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD

27. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
28. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

29. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
30. SHC ELEVATIONS SHAOWN ARE LOCATED AT THE PROPERTY LINE.
31. FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD

32. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING.

SITE ANALYSIS DATA CHART

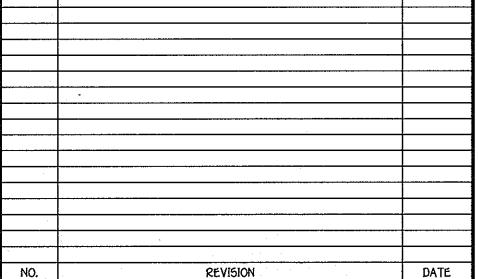
A. TOTAL PROJECT AREA: 0.4671 ACRES OR 20,347 SQUARE FEET. B. AREA OF SUBMISSION: 0.4671 ACRES OR 20,347 SQUARE FEET. C. LIMITS OF DISTURBANCE: 0.3000 ACRES or 13,068 SQUARE FEET. D. PRESENT ZONING DESIGNATION: R-20 E. PROPOSED USE FOR SITE: RESIDENTIAL

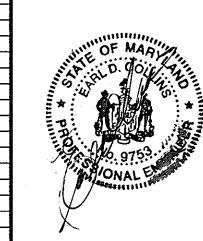
DRESS CHART		
STREET ADDRESS		
8110 CHESTNUT CREST DRIVE		
i		

INDEX CHART						
SHEET	DESCRIPTION					
SHEET 1	TITLE SHEET, HOUSE TYPE, SITE DEVELOPMENT & SEDIMENT/EROSION CONTROL PLAN					
SHEET 2	SEDIMENT/EROSION CONTROL NOTES & DETAILS					

SITE DEVELOPMENT &

FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYOR ELLICOTT CITY, MARYLAND 2104







_paved drive--(to remain)

Reviewed for HOWARD 5CD and meets Technical	Requirements.
U.S.D.ANatural Resources Conservation Service This development plan is approved for soil erosion	Date
the HOWARD SOIL CONSERVATION DISTRICT.	6/24/0
Howard SCD	Date
OWNER/BUILDER	/DEVELOPER

DORSEY FAMILY HOMES 10717-B BIRMINGHAM WAY

WOODSTOCK, MARYLAND 21163

410-465-7200

PERIMETER LANDSCAPE EDGE

<u>C</u> h	ief, Devel	on/of land De	ering Division)	nq	<i>CEN</i> *	Da Da Da Da	12/0
	OJECT	J			SECTION	4	LOT	NO.
MU	MUSACCHIO PROPERTY				N/A		2	
PL.	AT	BLOCK NO.	ZONE	TAX	(/ZONE	ELEC. DI	ST.	CENSUS TR.
	18809	20	R-20	18		SECOND		6029.00
	ATER CO	DE			ER COD	É		,
FC	01			1011	33			

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING Cindo Hamel 7/2/0

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED

MUSACCHIO PROPERTY

LOT 2 PLAT NO. 18809

TAX MAP NO.: 18 PARCEL NO.: 71 GRID NO.: 20 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: 1" = 30' DATE: APRIL, 2007

SHEET 1 OF 2

SDP 07-108

Using vegetation as cover for barren soil to protect it from forces that cause erosion. PURPOSE

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources. CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on decuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration O(up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

A. Site Preparation Install erosion and sediment control structures (either temporary of permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.

ii. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.

iii. Schedule required soil tests to determine soil amendment composition and application rates for sites

having disturbed area over 5 acres. B. Soil Amendments (Fertilizer and Lime Specifications) Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering

purposes may also be used for chemical analyses. ii. Fertilizers shall be uniform in composition free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee

of the producer. iii. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a *100 mesh sieve and 98-100% will pass through a *20

mesh sieve. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means. Seedbed Preparation

Temporary Seeding

a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of a seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of a seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of a seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of the seedbed preparation shall consist of loosening soil to 3" to 5" by means of the seedbed preparation shall consist of loosening shall co suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. Apply fertilizer and lime as prescribed on the plans.

c. In corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means. ii. Permanent Seeding Minimum soil conditions required for permanent vegetative establishment:

1. Soil pH shall be between 6.0 and 7.0.

Soluble salts shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedezas is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.

Soil shall contain 1.5% minimum organic matter by weight. Soil must contain sufficient pore space to permit adequate root penetration If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil

b. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.

Apply soil amendments as per soil test or as included on the plans.

Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on

newly disturbed areas. D. Seed Specifications

All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.

Note: Seed tags shall be made available to the inspector to verify type and rate of seed used ii. Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effective.

E. Methods of Seeding Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder.

a. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen, maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous); 200 lbs/ac; K20 (potassium): 200 lbs/ac. Lime - use only ground agricultural limestone, (Up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one

time. Do not use burnt or hydrated lime when hydroseeding. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and

ii. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

a. Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.

b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

iii. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

a. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

b. Where practical, seed should be applied in two directions perpendicular to each other.

Apply half the seeding rate in each direction.

Mulch Specifications (In order of preference) Straw shall consist of thoroughly threshed wheat, ree or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

ii. Wood Cellulose Fiber Mulch (WCFM) WCFM shall consist of specially prepared wood cellulose processed into a uniform

fibrous physical state.

WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry. WCFM, including dye, shall contain no germination or growth inhibiting factors. WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed

in contact with the soil without inhibiting the growth of the grass seedlings.

WCFM material shall contain no elements or compounds at concentration levels that will be phytol-toxic.

f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.

Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

NO.

G. Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.

i. If grading is completed outside of the seeding season, mulch along shall be applied as prescribed in this section and maintained up the seeding season returns and seeding can be performed in accordance with these consistents. accordance with these specifications.

ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre. iii. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs

Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:

A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.

Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

iii. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be appear uniform after binder application. Synthetic binders – such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long. I. Incremental Stabilization - Cut Slopes

All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.

ii. Construction sequence (Refer to Figure 3 below): a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 b. Perform Phase 1 excavation, dress, and stabilize.

Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as

necessary.
Perform final phase excavation, dress and stabilize. Overseed previously seeded

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions int he operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization. J. Incremental Stabilization of Embankments - Fill Slopes

Embankments shall be constructed in lifts as prescribed on the plans.

ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches

15", or when the grading operation ceases as prescribed in the plans.

iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-crosive manner to

à sediment trapping device. Construction sequence: Refer to Figure 4 (below).

Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill in Figure 5, unless other methods shown on the plans address this area.

Place Phase 1 embankment, dress and stabilize.

Place Phase 2 embankment, dress and stabilize.

Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil (if required) grading and permanent seed and mulch. any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization

SEDIMENT CONTROL NOTES

1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LISCENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1055).

2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS

FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES.

DIKES PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD

SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50). AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7) SITE ANALYSIS: TOTAL AREA OF SITE 0.4671 ACRES 0.3000 ACRES AREA DISTURBED AREA TO BE ROOFED OR PAVED 0.0913 ACRES AREA TO BE VEGETATIVELY STABILIZED 0.2007 ACRES O CU.YDS. TOTAL FILL 0 CU.YDS.

OFFSITE WASTE/BORROW AREA LOCATION 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE

SAME DAY OF DISTURBANCE. 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES.

APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed Seedbed Preparation: Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules :

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs.

per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.). 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sa.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following

1) 2 tons per acre of well—anchored mulch straw and seed as soon as possible in the spring. 2) Use sod.

3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soll by raking.

discing or other acceptable means before seeding, if not previously

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sa.ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sg.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT 2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN 7 DAYS 3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE 4 DAYS

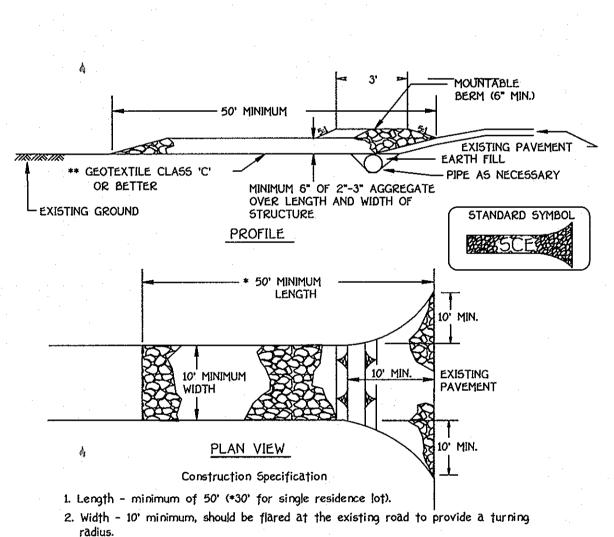
4. INSTALL TEMPORARY SEEDING 5. CONSTRUCT BUILDINGS

60 DAYS 6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE 14 DAYS

7. REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

7 DAYS

2 DAYS



3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile. 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete

equivalent shall be placed at least 6" deep over the length and width of the

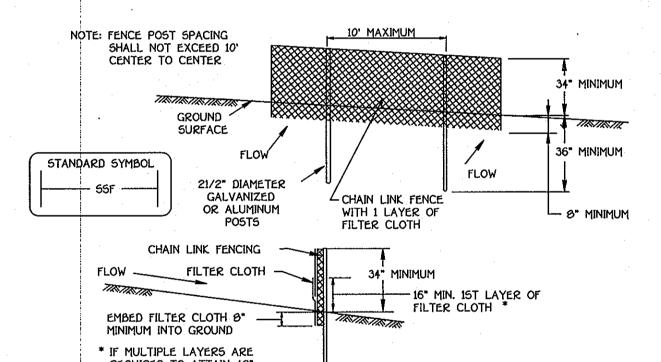
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance STABILIZED CONSTRUCTION ENTRANCE

Signature of Developer

Location - A stabilized construction entrance shall be located at every point

NOT TO SCALE



REQUIRED TO ATTAIN 42" Construction Specifications 1. Feincing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section. 4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6° and folded. 6. Maintenance shall be performed as needed and silt buildups removed when "bulges'

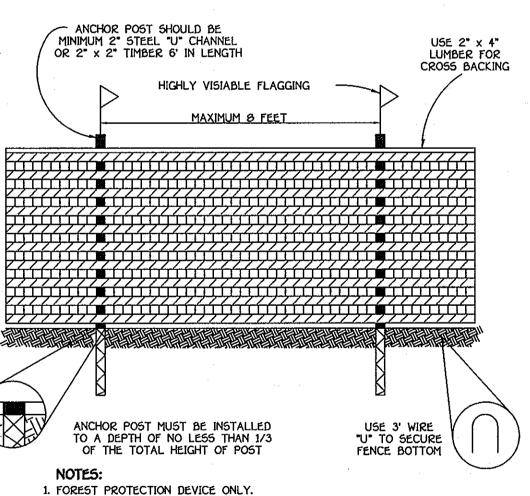
develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

> Test: MSMT 509 Tensile Strength 50 lbs/in (min.) Tensile Modulus 20 lbs/in (min.) Test: MSMT 509 0.3 gal/ft /minute (max.) Test: MSMT 322 Test: MSMT 322 Filtering Efficiency 75% (min.)

> > Design Criteria

Silt Fence Length 0 - 10% 0 - 10:1 Unlimited Unlimited 10 - 20% 1.500 feet 200 feet 20 - 33% 5:1 - 3:1 100 feet 1.000 feet 500 feet 33 - 50% 3:1 - 2:1 50% + 2:1 + 50 feet 250 feet

SUPER SILT FENCE NOT TO SCALE



2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.). BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.

4. ROOT DAMAGE SHOULD BE AVOIDED. 5. PROTECTIVE SIGNAGE MAY ALSO BE USED. 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

> BLAZE ORANGE PLASTIC MESH TREE PROTECTION DETAIL NOT TO SCALE

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS l square office park – 10272 Baltimore National Piki

DATE

ENGINEER'S CERTIFICATE I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." and a

6.13.07

EARL D. COLLINS DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic of site inspection by the Howard Soil Conservation District."

Regiewed for HOWARD SCD and meets Technical Requirements U.S.D.A.-Natural Resources
Conservation Service 6260 plan is approved for soil erosion and sediment control by the HOMARD SOIL CONTERNATION DISTRICT. 6126101

> OWNER/BUILDER/DEVELOPER 10717-B BIRMINGHAM WAY WOODSTOCK, MARYLAND 21163

112/0781 irector Department of Planning and Zoning MUSACCHIO PROPERTY BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. CENSUS TR. 18809 R-20 SECOND 6029.00 20 WATER CODE SEWER CODE 101133

SEDIMENT/EROSION CONTROL NOTES & DETAILS

SINGLE FAMILY DETACHED

MUSACCHIO PROPERTY LOT 2

TAX MAP NO.: 18 PARCEL NO.: 71 GRID NO.: 20 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND DATE: FEBRUARY, 2007 5CALE: 1" = 30'

SHEET 2 OF 2

SDP 07-108